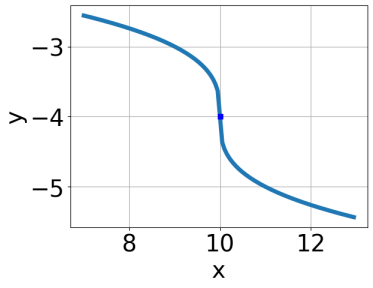
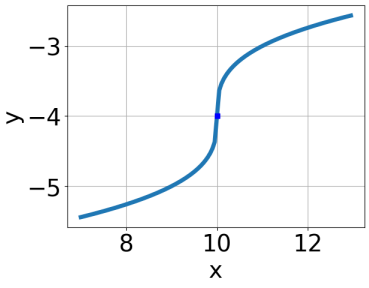
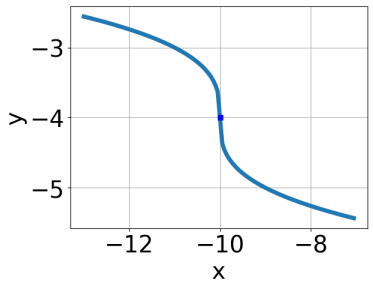
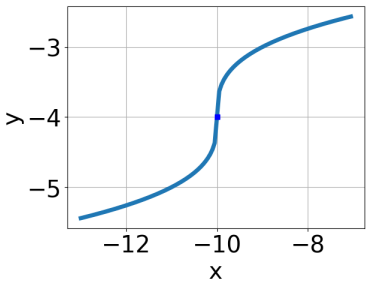
1. Choose the graph of the equation below.

$$f(x) = \sqrt[3]{x - 10} - 4$$

A. 

C. 

B. 

D. 

E. None of the above.

---

2. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{-56x^2 + 12} - \sqrt{-26x} = 0$$

A. $x \in [0.48, 0.99]$

B. $x_1 \in [-0.12, 0.53]$ and $x_2 \in [-0.25, 4.75]$

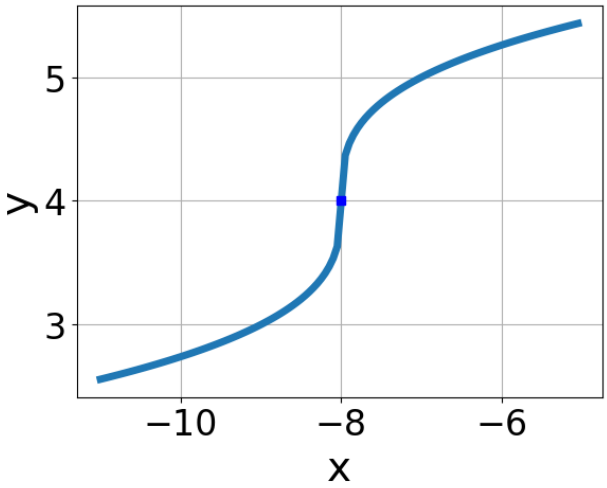
C. All solutions lead to invalid or complex values in the equation.

D. $x_1 \in [-0.84, -0.19]$ and $x_2 \in [-0.25, 4.75]$

E. $x \in [-0.84, -0.19]$

---

3. Choose the equation of the function graphed below.



A. $f(x) = -\sqrt[3]{x+8}+4$

B. $f(x) = \sqrt[3]{x-8}+4$

C. $f(x) = -\sqrt[3]{x-8}+4$

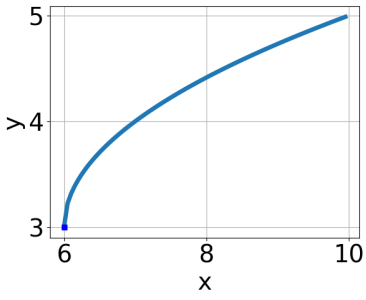
D. $f(x) = \sqrt[3]{x+8}+4$

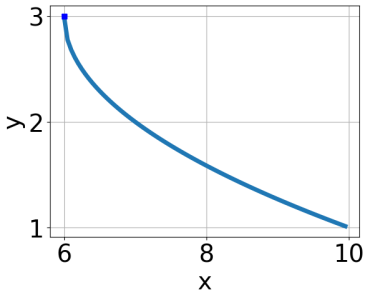
E. None of the above

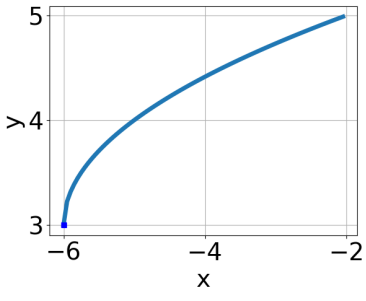
---

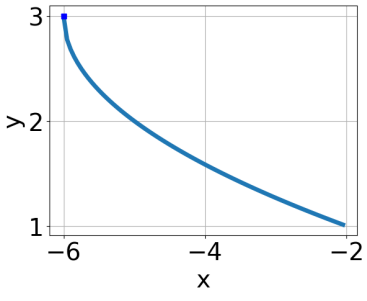
4. Choose the graph of the equation below.

$$f(x) = -\sqrt{x-6}+3$$

A.


C.


B.


D.


E. None of the above.

---

5. What is the domain of the function below?

$$f(x) = \sqrt[5]{-5x + 6}$$

A. The domain is $[a, \infty)$, where $a \in [1.06, 1.44]$

B. The domain is $[a, \infty)$, where $a \in [0.72, 1.05]$

C. The domain is $(-\infty, a]$, where $a \in [0.88, 1.42]$

D. $(-\infty, \infty)$

E. The domain is $(-\infty, a]$, where $a \in [0.58, 0.88]$

---

6. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{8x + 6} - \sqrt{2x - 8} = 0$$

A. $x_1 \in [-3.04, -1.63]$ and $x_2 \in [-5.75, 3.25]$

B. $x \in [0.14, 0.6]$

C. All solutions lead to invalid or complex values in the equation.

D. $x \in [-3.04, -1.63]$

E. $x_1 \in [-1.66, -0.2]$ and $x_2 \in [2, 9]$

---

7. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{8x + 4} - \sqrt{7x + 8} = 0$$

A. All solutions lead to invalid or complex values in the equation.

B. $x \in [3.31, 4.38]$

C. $x_1 \in [-1.15, -0.8]$ and $x_2 \in [-3.5, 1.5]$

D. $x_1 \in [-1.05, -0.39]$ and $x_2 \in [2, 9]$

E. $x \in [-12.21, -11.83]$

---

8. What is the domain of the function below?

$$f(x) = \sqrt[7]{-9x - 3}$$

A. $(-\infty, \infty)$

B. The domain is $[a, \infty)$, where $a \in [-4, -2]$

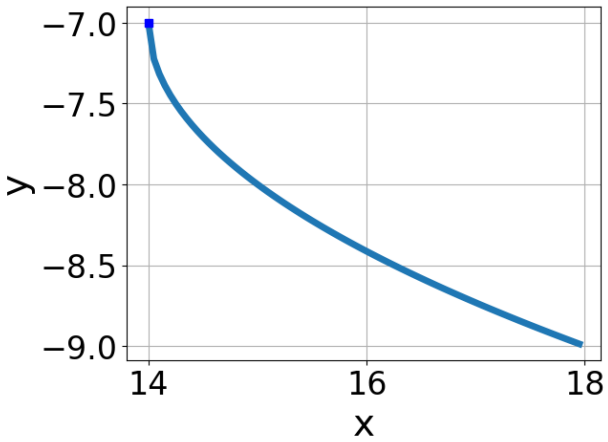
C. The domain is $(-\infty, a]$, where $a \in [-1.7, -0.2]$

D. The domain is $(-\infty, a]$, where $a \in [-3.9, -1.9]$

E. The domain is $[a, \infty)$, where $a \in [-1.33, 0.67]$

---

9. Choose the equation of the function graphed below.



A. $f(x) = \sqrt{x - 14} - 7$

B. $f(x) = \sqrt{x + 14} - 7$

C. $f(x) = -\sqrt{x - 14} - 7$

D. $f(x) = -\sqrt{x + 14} - 7$

E. None of the above

---

10. Solve the radical equation below. Then, choose the interval(s) that the solution(s) belongs to.

$$\sqrt{30x^2 + 36} - \sqrt{-69x} = 0$$

A. All solutions lead to invalid or complex values in the equation.

B. $x_1 \in [-0.08, 1.88]$ and $x_2 \in [1.33, 1.81]$

C. $x \in [-1.14, -0.53]$

D. $x_1 \in [-2.84, -1.13]$ and $x_2 \in [-2.44, -0.24]$

E. $x \in [-2.84, -1.13]$